

A PARENTS' GUIDE  
TO EDUCATION  
20-PAGE SPECIAL SECTION INSIDE



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INSIDE

Fall foliage 2023  
Start off the season exploring  
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Sunday

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# Pittsburgh Post-Gazette

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JOINT INVESTIGATION BY PG AND PROPUBLICA PART 1 IN A SERIES

 WITH EVERY BREATH



Benjamin B. Braun/Post-Gazette

Mark Edwards, a 58-year-old retired music teacher and father of three, sleeps with a recalled sleep apnea machine made by Philips Respironics the night before his surgery in Florida to remove a second tumor from his throat.

## Philips kept complaints about dangerous breathing devices secret while its profits soared

By Michael D. Sallah, Michael Korsh  
and Evan Robinson-Johnson  
Pittsburgh Post-Gazette

Debbie Cenziper  
ProPublica

Monica Sager  
Northwestern University

The first complaints landed at the offices of Philips Respironics in 2010, soon after the company made a fateful decision to redesign its bestselling breathing machines used in homes and hospitals around the world.

To silence the irritating rattle that kept users awake at night, Philips packed the devices with an industrial foam — the same kind used in sofas and mattresses. It quickly became clear that something had gone terribly wrong.

The reports coming into Philips described “black particles” or “dirt and dust” inside machines that pump air to those who struggle to breathe. One noted an “oily-like” substance. Others simply warned of “contamination.”

The complaints targeted some of the company’s most-celebrated devices built in two factories near Pittsburgh, including ventilators for the sick and dying and the popular DreamStation for patients who suffer from sleep apnea, a chronic disorder that causes breathing to stop and start throughout the night.

Yet Philips withheld the vast majority of the warnings from

the Food and Drug Administration, even as their numbers grew from dozens to hundreds to thousands and became more alarming each year.

“Black shavings in the chamber,” said one 2011 report that was kept from the government. “Contaminated with unknown sticky substance,” noted another three years later. By 2015, the year Philips launched the DreamStation, the company had amassed at least 25 complaints that pointed to a specific cause — the foam was falling apart.

In June 2021, more than a decade after the first reports,

SEE **CPAP**, PAGE A-11



Merlin Dalemán

Complaints poured into Philips that the foam inserted in the breathing devices since 2008 to reduce noise was breaking down, and could potentially be releasing toxic fumes into the lungs.

### By the numbers

11

Years between first complaints to Philips and 2021 recall

370

Death cases reported to the Food and Drug Administration

3,700

Complaints withheld from FDA by Philips (2010-2021)

Sources: Reports to Food and Drug Administration, and Device Events

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Scan the code for an interactive presentation, which includes:

- LEGAL TRAIL:** Tracing cases filed in U.S. cities and globally.
- IN THEIR WORDS:** Families and the company’s founder share their stories in video.

## GOVERNMENT SHUTDOWN

# Senate passes stopgap measure

McCarthy’s efforts rewarded in House

By Jonathan D. Salant  
Pittsburgh Post-Gazette

WASHINGTON — Congress averted a government shutdown with just hours to go Saturday, avoiding layoffs for thousands of federal employees in Pennsylvania and preserving federal nutrition aid for close to 180,000 low-income residents in the Keystone State.

The breakthrough came when House Speaker Kevin McCarthy abandoned his efforts to pass a bill with just Republican votes in a narrowly divided chamber and instead offered a measure funding the government at current spending levels for 45 days, giving lawmakers time to pass the appropriations measures funding federal agencies through Sept. 30, 2024.

Mr. McCarthy’s temporary spending bill, known as a continuing resolution, sailed through his chamber with a majority of both Republicans and Democrats.

The U.S. Senate on Saturday night overwhelmingly voted in favor of the bill, 88-9, ahead of the midnight deadline to avoid a government shutdown.

President Joe Biden, who said in

SEE **SHUTDOWN**, PAGE A-9

# Shapiro broadens message

Tells N.H. Democrats: ‘We can do big things’

By Ford Turner  
Pittsburgh Post-Gazette

BEDFORD, N.H. — Far outside the state he leads but well inside the national political environment he courts, Pennsylvania Gov. Josh Shapiro told New Hampshire Democrats on Saturday that his administration has shown America “we can do big things,” and that Democrats understand winning elections “is just the beginning.”

“We showed that we can do big things again here in America and I think that’s who we are as Democrats,” Mr. Shapiro said. “That’s the attitude we need to bring every single day across this nation. We get things done for the good people of this country.”

Mr. Shapiro appeared at the New Hampshire Democratic

SEE **SHAPIRO**, PAGE A-9



Shapiro



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Liz Moughon/ProPublica

The DreamStation, a continuous positive airway pressure (CPAP) machine, was among the signature devices made by Philips Respironics and part of one of the largest recalls of its kind.



U.S. District Court of Western Pa. exhibit

The foam breaks down into particles, as shown in this photo that was attached to an email sent by a concerned Philips engineer to the company's foam supplier in 2018.

# MILLIONS OF DEVICES, ONE DANGEROUS DEFECT

CPAP, FROM A-1

Philips announced a recall of millions of machines that had been delivered to nearly every corner of the United States and dozens of other countries. The company acknowledged that the foam it had chosen could crumble in heat and humidity and send potentially “toxic and carcinogenic” material into the noses, mouths, throats and lungs of users.

In a series of statements, the industry giant said it acted as soon as it learned of the “potential significance” of the problem.

But an investigation by the Pittsburgh Post-Gazette and ProPublica of the 11 years between the first complaints and the recall reveals a different story — one of a company that sought to protect its marquee products as stock prices soared to the highest levels in decades.

Again and again, previously undisclosed records and interviews with company insiders show, Philips suppressed mounting evidence that its profitable breathing machines threatened the health of the people relying on them, in some cases to stay alive.

Federal law requires device makers to turn over to the government within 30 days all reports of patient injuries, deaths and malfunctions that have the potential to cause harm, and to take action to investigate them.

A Post-Gazette and

ProPublica analysis of tens of thousands of reports shows that Philips withheld more than 3,700 complaints over 11 years from the FDA, which oversees medical devices.

And the company did not launch a formal investigation of the problem until 2019 — nine years after the first wave of complaints and three years after the first known tests for the company found that the foam was degrading.

Instead, as the complaints continued to pile up in company files, Philips waged aggressive global marketing campaigns to sell more machines, including new models fitted with the hazardous foam.

The sales pitch worked: The devices went to infants, the elderly and at least 700,000 veterans. The company also promoted machines meant for some of the sickest people in the country, rolling out a new ventilator filled with the foam in the early months of the COVID-19 pandemic.

Philips didn't stop even after an investigation in Japan found the foam was breaking down in the company's ventilators and had to be replaced — and after tests in the United States revealed the material released dangerous chemicals. Among them: formaldehyde, a compound used in fertilizer, dyes and glues that has been tied to respiratory problems and, at high exposure levels,



Arturo Fernandez/Post-Gazette

Respironics founder Gerald McGinnis, a Pittsburgh inventor and mechanical engineer, helped develop one of the first mass produced CPAPs in the world. “I felt like I lost my third daughter,” he said after the company was sold to Royal Philips in 2008.

“It was a catastrophic series of errors. There were people who knew and knew for a long time.”

Former Philips compliance supervisor

certain cancers.

In 2018, the company called more than a dozen engineers and safety supervisors to a series of urgent meetings in Pittsburgh to investigate the problem in what eventually became known to insiders as Project Uno.

Still, the public was not warned.

All the while, people using Philips machines were suffering from illnesses that no one could explain: vomiting, dizziness and headaches, along with newly diagnosed cancers of the lungs, throat, sinuses and esophagus. One man in Philadelphia coughed so hard that he broke his ribs, and a Florida woman with a hacking cough was hospitalized for days and placed on oxygen.

“Unconscionable,” said Dr. Radhika Breen, who scrambled at her Oregon sleep clinic to help thousands of patients who were using the devices. “We were all completely blindsided. You can't have people inhaling black dust ... without warning us.”

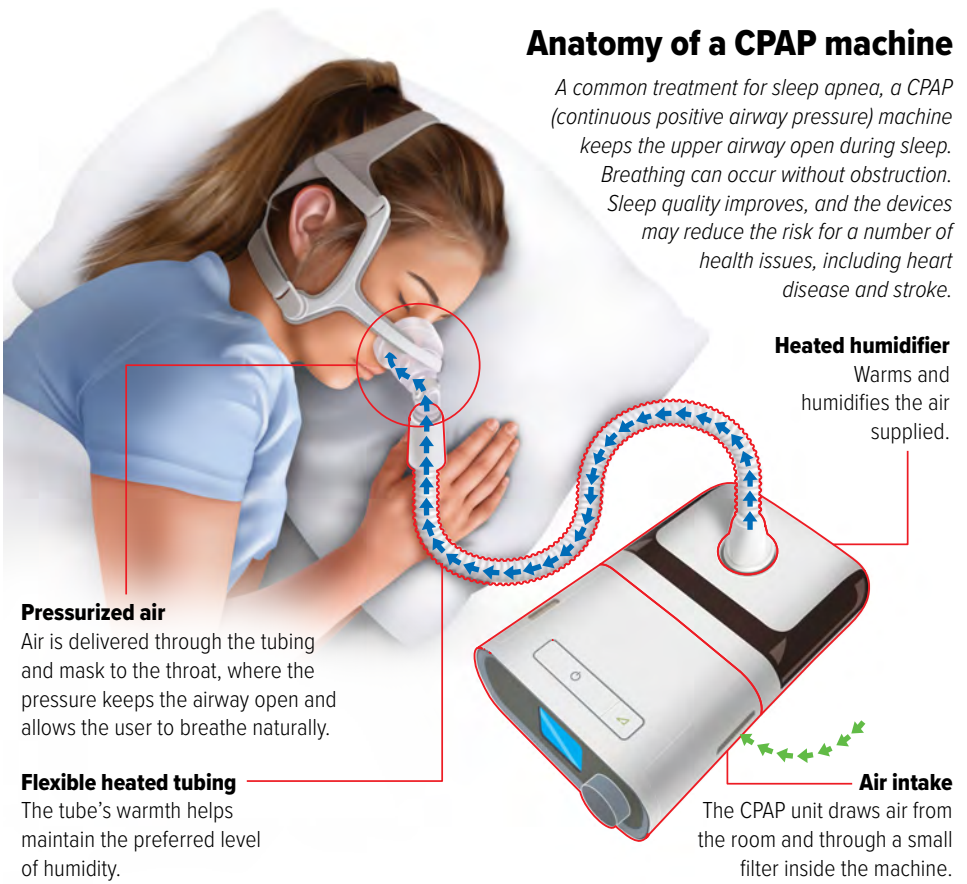
To examine what happened at Philips, reporters interviewed more than 200 former company supervisors, doctors, toxicologists, patients and the relatives of those who died, and obtained company records that show officials knew about the dangers but continued to sell machines the FDA has since said are capable of causing severe illness or death.

Reporters also reviewed thousands of complaints submitted to the company and government describing device malfunction and injuries, including more than 370 reports of deaths. As part of the investigation, the news organizations collaborated with Mediatech NRC, the publisher of one of the largest newspapers in the Netherlands, where Philips' parent company is located.

In a statement to the news organizations, Philips said its top priority is patient safety and that it regretted “the distress and concern” caused by the recall. “We deeply apologize for that and

## Anatomy of a CPAP machine

A common treatment for sleep apnea, a CPAP (continuous positive airway pressure) machine keeps the upper airway open during sleep. Breathing can occur without obstruction. Sleep quality improves, and the devices may reduce the risk for a number of health issues, including heart disease and stroke.

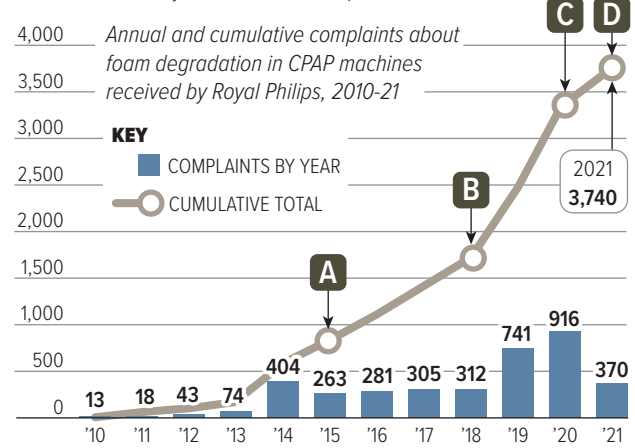


Source: Royal Philips

James Hillston, Ed Yozwick/Post-Gazette

## Philips received 3,700 complaints about contaminants in breathing machines

The medical device maker began using polyester-based polyurethane foam in its ventilators and CPAPs to reduce noise more than a decade ago. The company was barraged with reports of “debris,” “black particles” and “foam degradation,” but held back the complaints from regulators until after the recall — 11 years from the first report.



- A** 2015: Philips receives complaints about ventilators in Japan. Tests show that the foam fitted inside the machines could break down in heat and humidity, releasing particles into the masks worn by patients.
- B** 2018: In an email, a mechanical engineer at Philips acknowledges the foam is “disintegrating,” and wrote “This is not a good situation for our users.”
- C** 2020: Some of the company's top supervisors take part in health hazard evaluations, which find that the crumbling foam and released chemicals could cause “serious injury, life-threatening or permanent impairment.”
- D** 2021: After recall, Philips turns over past complaints dating back to at least since 2010

Source: Device Events, a Pennsylvania company that extracts federal data from the Food and Drug Administration's adverse events tracking system known as Manufacturer and User Facility Device Experience (MAUDE)

James Hillston/Post-Gazette

continue to work hard to resolve this,” the company said.

Philips said complaints about the foam were limited in the years before the recall and that the reports were evaluated on a case-by-case basis. The company added that it became aware of the potential significance of the problem in early 2021 and launched the recall shortly after that.

Former company engineers and safety supervisors, who spoke on the condition of anonymity because they still work in the industry, said top officials at Philips repeatedly dismissed a dangerous breakdown that ultimately set off a worldwide health crisis involving as many as 15 million devices.

“It was a catastrophic series of errors,” said a former compliance supervisor. “There were people who knew and knew for a long time.”

In the months since the recall, the company has walked back its acknowledgment of the health risks posed by the degrading foam, saying tests on the DreamStation and similar devices show the chemicals released by the material fall within safety thresholds.

“The whole product complies with safety norms,” Roy Jakobs, chief executive

officer of parent company Royal Philips, said last year.

The Post-Gazette and ProPublica obtained copies of four tests carried out in 2021 that were solicited by Philips. Three experts who reviewed the results for the news organizations dispute the company's claim and point to another finding that they say is even more alarming.

The foam tested positive multiple times for genotoxicity — the ability of a chemical to cause cells to mutate, a process that can lead to cancer.

“You're basically changing cells,” said one engineer who was involved in the testing and summarized the results. “I don't even know if we really scratched the surface of how bad this really is.”

In New York, 58-year-old retired music teacher and father of three Mark Edwards said he'll spend the rest of his life fearing that a sleep apnea machine caused years of respiratory infections and two benign tumors in his throat.

Mr. Edwards brought home a DreamStation in 2017 and set it up next to his bed, where he sleeps with his rescued German shepherd, Tyson. He continued using it even after he said he began to spot black particles in his mask.

“I would wash it and use hot water, and then two days later, I would see it again,” he said.

After his machine was recalled, Mr. Edwards sued the company, one of tens of thousands of people joining litigation against the company in federal court in Pittsburgh.

Mr. Edwards stopped using the device earlier this year and said his respiratory infections went away, but in April, he traveled to Florida to undergo a second surgery on his throat. As he waited in the hospital with his sister, he clutched a gold crucifix around his neck.

“If something happens to me in surgery, I'm ready to go,” he said, and then he was wheeled off to the operating room.

## A COMPETITIVE EDGE

Years before the crisis, inventor Gerald McGinnis sat in his suburban Pittsburgh kitchen next to an avocado-green stove and Betty Crocker cookbooks, fretting about patients forced to breathe through tubes inserted into their windpipes.

The mechanical engineer





Cindy and Bruce Pogyor celebrate an anniversary in a family photo. The Pogyors were married for nearly 50 years, before Bruce succumbed to lung cancer in late 2020. Benjamin B. Braun/Post-Gazette photos

By Jordan Anderson  
Pittsburgh Post-Gazette

A year and a half after Cindy Pogyor said goodbye to her husband as he lay dying from the lung cancer that had spread to his brain, the box arrived at her home outside Pittsburgh.

It was a Philips Respironics breathing machine — a replacement for the same ones he had used every night for seven years.

She reached into the container, pulled out the device, and tossed it into the garage.

Her 72-year-old husband, Bruce, never knew that his machine along with millions of others had been pulled from the shelves because of a dangerous flaw, one that the company and the federal government said could cause severe injuries and even death.

In June 2021, eight months after Bruce died, Philips Respironics had announced that foam placed inside the devices to insulate sound was breaking down under heat and moisture and potentially releasing highly toxic fumes into the lungs of sleeping patients.

Now, living alone in a ranch home at the end of a quiet street in Elizabeth Township, she said she wrestles with wrenching questions over whether the machine — built in a Philips factory just miles from their home — caused the disease that led to years of painful surgeries and treatments.

For months, Ms. Pogyor watched her husband of nearly 50 years slowly waste away, even as he used the DreamStation continuous positive airway pressure machine — or CPAP — that he thought was helping to sustain his life.

“We relied on the usage of [those machines], not knowing that it could be harmful,” said the 75-year-old widow, who is consulting with a Pittsburgh law firm about joining in personal injury litigation against Philips that alleges the company knew of the hazards years before it yanked the devices from the market. “How could they?”

At the start of the recall, Philips said the potential health risks of the devices could lead to serious injury “which can be life threatening” and then later backed off that disclosure, saying that further testing did not show any long-term danger.

But the Food and Drug Administration has called into question several of the company’s tests and says it has received at least 385 reports of

# MEMORIES AND A MISSION

Philips recall of hazardous breathing machines serves as a painful reminder for Elizabeth widow, but she vows to ‘be a voice for him’ and others



Cindy Pogyor says she is on a mission to ensure her husband’s death provides insights for others.

deaths of people who used the machines in what experts say could be one of the deadliest recalls of medical devices in U.S. history.

For the past year, Ms. Pogyor says she has been on a mission to gather details about the dangers of the machine — and how she can be a voice for her husband, who never knew anything about them.

The couple met more than 60 years ago when both were in the fifth grade in West Mifflin — her curly hair catching his attention, she said.

They married while he finished his studies at what is now Robert Morris University, and later moved to Elizabeth in 1975 to build their lives around their extended family and friends.

Ms. Pogyor worked for Trans World Airlines, while her husband launched a career in food sales. Even in the years they lived paycheck to paycheck, they would scrounge up money to travel, often visiting family in Southern California and spending countless hours at the beach.

“We did everything to-



Cindy Pogyor displays keepsakes of her husband, Bruce.

gether,” she said.

In their retirement, the couple didn’t slow down. They held season tickets for the Pittsburgh Pirates, visited casinos to play keno, and attended musicals like “The Buddy Holly Story” and “Jersey Boys” at the Benedum Center for the Performing Arts.

Though they never had their own children, they embraced their nieces and nephews like they were their own.

After his diagnosis of sleep apnea in 2012, he used his DreamStation machine faithfully and cleaned it regularly, at times with an ozone cleaner — a substance that Philips blames for much of the problem with the foam.

But even the FDA, which has been highly critical of Philips over its handling of the recall, says the breakdown is due to the foam, and not the ozone cleaner.

In 2018, during a scan of his heart, doctors found spots on his lungs. At first, they thought he had pneumonia and treated him with antibiot-

ics. When the spots didn’t go away, a lung biopsy confirmed it was cancer.

Slowly, week by week, the disease broke him down. During a period after radiation, he passed out eight times in five months, his wife recalled.

He would sometimes collapse in public without warning and could no longer take part in activities that he loved, like golf, his favorite sport since he was 12.

“He wasn’t able to do anything at all,” said Ms. Pogyor.

His family struggled to cope. Known as “Uncle Smooth” — a name that stuck when he was waxing a car with his nephew — he could no longer attend family dinners or other events. Before, he rarely missed his nephew’s football games.

“My kids just adored him,” said Joyce Tarabrella, his sister who lives just a block away.

In time, the disease metastasized and spread to other parts of his body. In his last month, Mr. Pogyor underwent brain surgery. Initially, recovery

## TELL US YOUR STORY



If you’ve been affected by the recall of 15 million of Royal Philips’ breathing devices,

we’d like to hear about your experience. Scan this code to share your insights.

was going well, and he was set to stay at UPMC East in Monroeville for about three weeks.

But he died Oct. 26, 2020, just three days before he was scheduled to go home.

In June 2021, less than a year after his death, the company issued the massive recall for its breathing devices. Ms. Pogyor said she remembers receiving a notification in the mail. She dismissed it.

“It was like my husband’s past,” she said.

Then she got another one, and then a third.

The final notification pushed her to go online and learn more about the foam and potential health risks. “Possible toxic and carcinogenic effects,” the company said in its recall announcement. She felt horrified, angry, by what she read.

Not only was her husband’s first CPAP machine filled with the problem foam, but a second one he began using in 2019 was also fitted with the same material.

“They knew of this situation for years and failed to act, notify the public,” Ms. Pogyor said.

In May 2022, she received the new DreamStation machine, a replacement meant for her husband.

“My husband’s deceased, why are you even sending this?” she recalled saying at the time.

All these months later, she said she’s left to think about a life that feels unfinished, cut short.

She said she still talks to her husband every day. From time to time, she looks through a folder full of keepsakes, including the birthday cards he crafted out of envelopes when he became sick and couldn’t drive anymore. He always wanted to give her something.

On what was to be their 50th wedding anniversary, she flipped through their old photos, just like they used to do together each year. Nearby was the camouflage urn holding his ashes at her bedside and the framed wedding photos behind it.

“You can be in a room full of people and still feel alone,” she said. “You don’t realize how much noise the house makes when you’re the only one in it.”

Ultimately, she says she will devote whatever time it takes to make sure her husband’s case and those of others are heard.

“I thought I had to be a voice for him,” she said. “He was one that didn’t back down, you know; he had always pushed me to speak my mind. And I thought I had to do that for him.”

Jordan Anderson: jander-son@post-gazette.com



Bruce Pogyor’s death notice as it appeared in the Post-Gazette.



CPAP, FROM A-11

knew he could create something better.

Throughout the 1980s, Mr. McGinnis invented a series of breathing masks and ultimately developed the nation's first mass-produced continuous positive airway pressure, or CPAP, machine, sold under the banner of his growing company, Respironics.

During a scientific renaissance that transformed Pittsburgh from a steel town into a hub for medical innovation, the company became a dominant player in a thriving industry that would change the lives of those struggling with sleep apnea.

For the millions of people impacted by the condition, CPAP machines were game-changers, allowing them to breathe normally at night — often for the first time in years.

“It was the gift from heaven,” said Mr. McGinnis, now 89, whose company grew to 4,900 employees and more than \$1 billion in revenue by 2007.

Everything changed when Royal Philips, the conglomerate known for light bulbs and televisions, showed up at his door, he said in an interview with the Post-Gazette and ProPublica.

The company from Amsterdam had just purchased several medical equipment companies in the United States and aimed to take over Respironics. At first, Respironics rejected the Dutch company's bid, but finally agreed to sell in 2007 under the threat of a takeover, Mr. McGinnis said.

“They said, ‘We want to



Liz Moughon/ProPublica

George Bales a retired graphics artist in Caldwell, N.J., used a recalled CPAP for six years before developing stage 4 throat cancer. He now eats with a feeding tube. He says his wife, Dr. Susan Bales, a pediatrician, has remained a constant source of support throughout his ordeal.

“No one ever informed me that this machine might be killing me.”

George Bales

sure he was breathing.

Long retired, Mr. Bales spent hours in the kitchen, perfecting his marinara sauce for dinner parties, until he developed a sore throat and congestion that wouldn't go away in 2021.

Doctors found a malignant tumor near one of his vocal cords. Mr. Bales, who now has trouble swallowing and uses a feeding tube inserted just above his belly button, acknowledges he may never know whether the recalled machine caused his cancer. But he said the company should have warned customers years earlier.

“No one ever informed me that this machine might be killing me,” said Mr. Bales, 78, who is suing Philips. “I'm now suspicious of everything I take into my body.”

ELVIS AND AIR FRYERS

As complaints inundated the company, Philips launched marketing campaigns to sell its devices around the world, from Toronto to Sydney. In Brazil, one doctor prescribed the machines to 1,200 patients — the youngest just 6 months old.

The company showed up at international health conferences in Berlin and Dubai to promote the devices, in one case with the help of an Elvis impersonator.

In advertisements Philips declared that its CPAP machines were far quieter than those put out by its top competitor. “Rediscover dreams,” the company said. In 2017, Philips offered free air fryers to anyone who bought an \$800 DreamStation.

“From the very beginning, they wanted to put CPAPs in the supermarket as a long-term project,” said Laura Adorni, a former sales director at Philips in Italy. “They already had razors, toothbrushes, aerosol devices in pharmacies and shops, so why not also have a CPAP?”

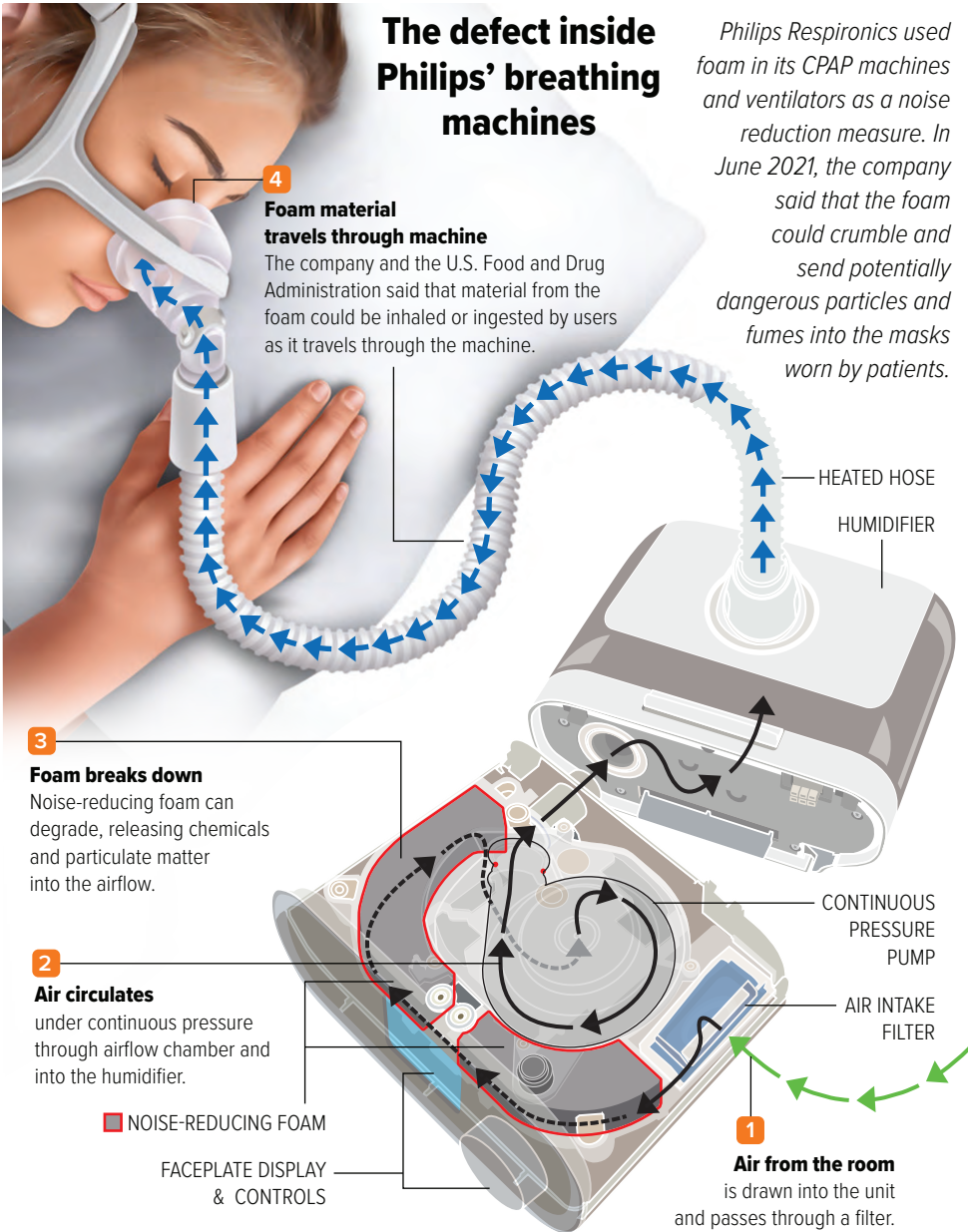
As the company promoted its machines, Philips cut deals, beginning in 2012, with local medical equipment suppliers that sell the devices directly to patients — drawing the attention of federal investigators.

In one case, the government accused Philips of giving suppliers in 2014 a coveted database about the prescribing practices of doctors.

In exchange, prosecutors said, Philips expected the suppliers to recommend the company's breathing machines, which are often paid for through Medicare and other public programs.

“Move ... share in our direction,” a sales director at Philips wrote in an email to his team about the arrangement.

SEE CPAP, PAGE A-14

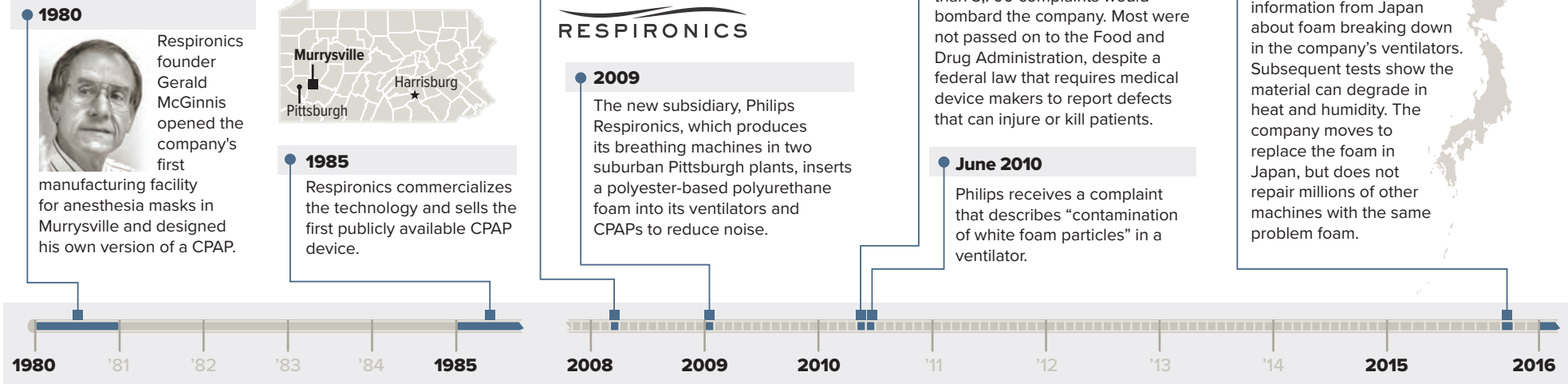


Source: Royal Philips

James Hilston, Ed Yozwick/Post-Gazette

Inside Philips, an unfolding crisis

As one of the world's leading manufacturers of CPAPs and ventilators, Philips Respironics made a fateful decision more than a decade ago: Fitting polyester-based polyurethane (PE-PUR) foam inside the chambers of its breathing devices to reduce noise. What followed would throw the company into turmoil, draw international criticism and threaten the health of millions of vulnerable people.



Sources: Royal Philips internal emails, Post-Gazette archive, court filings

Research: Mike Sallah, graphic: Ed Yozwick/Post-Gazette



CPAP, FROM A-13

Prosecutors later alleged that the exchange of the database — which can cost more than \$100,000 — amounted to an illegal kick-back scheme and reached a settlement with Philips, which eventually paid \$24 million without admitting wrongdoing. In its statement to the news organizations, the company said it agreed to settle to avoid the expense of further litigation.

In 2015, Philips was moving to dominate the market, but its emerging foam problem threatened the momentum. That year, a company engineer emailed the foam supplier, saying: “I have never seen this happen to foam we have here,” company records show.

Two and a half years later, as new complaints came in from Australia, Philips scientists were summoned to a series of emergency meetings outside Pittsburgh to come up with a plan. The day after one of the sessions, another engineer detailed the safety risk in an email to the foam supplier.



Connie Thompson, a 24-year-old college student in Martinsville, Indiana, cut up surgical masks and stuffed them into her CPAP to try to trap the black debris that she saw in the breathing tube.

she had no idea about the menace in her own bedroom.

“It’s almost like a betrayal,” said Ms. Thompson, now a 24-year-old college student studying public safety.

South of Baton Rouge in the Iberville Parish of Louisiana, 62-year-old Sheriff Brett Stassi said he regularly found black particles on his pillow.

He spent four years using a DreamStation before he was diagnosed with kidney cancer, rushed into surgery and put on a rigorous course of treatment. After the recall, Sheriff Stassi said he learned from the FDA and others that some of the particles released by the foam could harm the kidneys and liver.

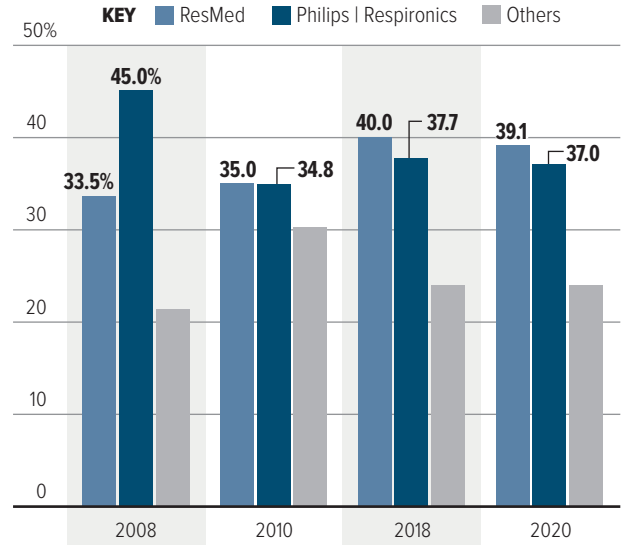
He is hoping to complete his fourth term as sheriff before he retires to spend more time with his grandchildren, whose pictures fill his wood-paneled office, and to cheer on his beloved Louisiana State University football team.

As a longtime investigator, Sheriff Stassi said he’s baffled by the company’s decisions.

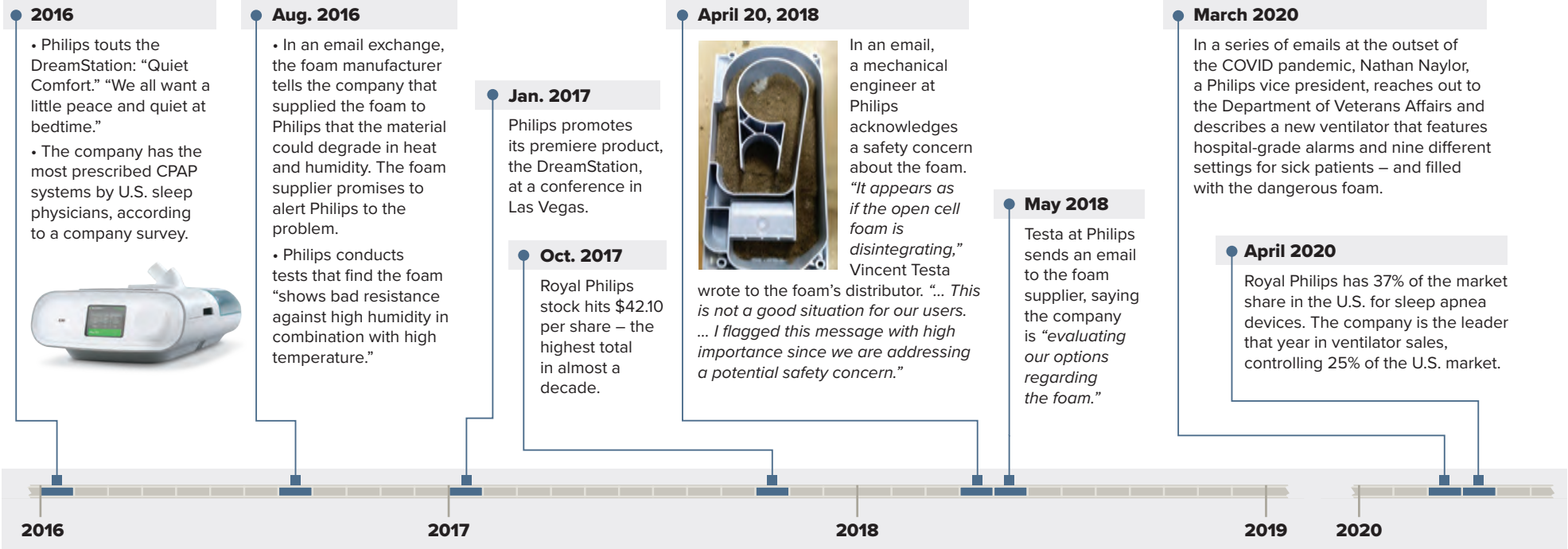
“They knew about it, did nothing about it and then started working on a fix,” said Sheriff Stassi, who is suing Philips. “People matter. You only get one chance to do it right.”

Battle for breathing machine supremacy  
Philips, ResMed compete for sleep apnea device market share in U.S.

With several companies competing in the sleep apnea industry, Philips continued to sell its devices with the defective foam, even after the company was alerted to the health hazards of its popular CPAPs.



Source: iData Research Inc James Hilston/Post-Gazette





JOINT INVESTIGATION BY

PG AND PROPUBLICA

WITH EVERY BREATH

WWW.POST-GAZETTE.COM/ROYALPHILIPS

CPAP, FROM A-14

in the filter. She had been spitting green phlegm,” noted one report in May.

Another report in June: “Caused the patient to develop lung nodules.”

Not until the middle of that month did the company announce a voluntary recall, acknowledging that the foam could release chemicals or break into particles capable of causing life-threatening injuries.

Philips said potential health problems included asthma, dizziness, vomiting, respiratory-tract irritation and “adverse effects” to organs including the kidneys and liver. The company also said the material could present a cancer risk.

“It’s one of the two or three worst things I have ever seen,” said Dr. Sidney Wolfe, a longtime medical researcher and founder of Public Citizen’s Health Research Group in Washington, D.C. “It was unacceptable to sell these machines.”

The true extent of the crisis may not be known for years.

As news of the problem spread, customers and others stepped forward by the thousands, describing emergency room visits and sudden illnesses in reports submitted to Philips and the government. The reports detailed nearly 2,000 cases of cancer, 600 liver and kidney illnesses and 17,000 respiratory ailments.

“Recurring sinus infections, inflammation, chest pain,” one CPAP user wrote in July 2021.

“I have constant headaches,” another said in December. “Now I am living with my own hell on earth.”

In several cases, the reports described patients who inhaled pieces of foam.

“Caused a patient to vomit,” one report said that month. “The patient was unable to remove the mask and expired.”

In a Philadelphia apartment he shares with two cats, lawyer Roger Traversa broke several ribs while coughing two years ago. In the hospital, doctors drained 2½ liters of fluid from the wall of his lungs.

After his CPAP machine was recalled, he went to a local flea market and spent \$60 on another device made by a Philips competitor.

“I feel much better,” said Mr. Traversa, who is also a plaintiff in the ongoing lawsuits. “Now I can go ... most of the day without having a coughing fit that drives people nuts. It was a great relief.”

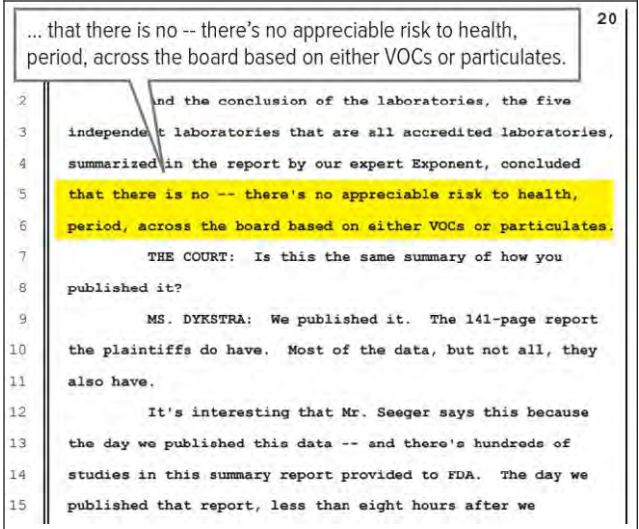
Philips said the reports of illnesses and injuries are not evidence that its devices caused harm. Six medical experts who spoke to the Post-Gazette and ProPublica said the complaints are an indisputable indicator of a sprawling public health crisis. They said more harm is likely to emerge in coming years, much as the full effects of tobacco or asbestos only became clear decades later.

“If you shoot tiny ping pongs down airways to obstruct the lungs, you can imagine the potential consequences,” said Dr. Robert Lowe, a retired emergency room physician and public health researcher in Oregon who used a DreamStation before it was recalled.



Liz Moughon/ProPublica

Army veteran Jules Lee, 56, said he stopped using his Philips CPAP machine six months before the recall, but he has sleep apnea and worries about dying in his sleep.



U.S. District Court of W. Pa. exhibit; photo illustration: Post-Gazette In this transcript, a Philips Respironics lawyer tells the federal court in Pittsburgh in June that tests ordered by the company found “no appreciable risk to health” from its CPAP machines. (highlight added)

Philips has pointed to studies from France and Canada that found Philips CPAP users were not at higher risk of cancer. But those studies described limitations: The analysis in Canada lacked information about whether patients used their machines regularly and the researchers in France acknowledged that more time and a larger sample size would be needed to produce definitive results.

John James, former chief toxicologist for NASA, said it’s far too early to assess how much damage has been done.

“You can’t trivialize the problem,” said Mr. James, who was responsible for ensuring that astronauts had clean air. “You’re basically putting this in the air stream of a human being breathing straight through that material.”

Other claims by Philips have also been met with skepticism.

The company has frequently pointed to an ozone cleaner used by some customers to disinfect their devices, saying the product accelerated the breakdown of the foam. But the FDA has said that the machines themselves, not the cleaners, presented “unreasonable risk to patients.”

Philips has also said that only a small number of re-

called machines showed evidence of disintegrating foam after a visual inspection. But a 2021 report by experts in the company, obtained by the Post-Gazette and ProPublica, concluded that there was no way to tell by simply looking how much the foam had broken down.

Since the recall, the company has said that testing on the DreamStation and similar devices shows the chemicals released by the foam — including phenol, which can cause lung damage and dizziness — are not at levels that can cause “appreciable harm” to patients.

The company acknowledges that the foam tested positive for genotoxicity — its own experts described “uncontrolled cellular replication” — but said that a third-party assessment still concluded the machines are unlikely to cause harm.

The three experts consulted by the news organizations said that’s not possible. While safety thresholds for chemical emissions vary and findings can be open to interpretation, genotoxicity means that one or more chemicals are changing cells, the building blocks of the human body.

“You can’t make the argument that it’s safe. That’s bad science,” said the engineer involved in the Philips testing. “It’s a real-life fail-



Courtesy of Roger Traversa

Doctors drained 2½ liters of fluid from Roger Traversa’s lungs after he coughed so hard he broke ribs from what he believes was severe irritation caused by the degraded foam in his DreamStation CPAP machine.

ure that shows you have a problem. There’s no ambiguity. There is unacceptable risk. Full stop.”

The company’s ventilators also tested positive for genotoxicity; Philips said the devices are still being assessed.

These safety claims have raised concerns among employees and others involved in the testing, interviews and text messages show. In August 2021, two months after the recall, one Philips engineer sent a series of texts to a colleague about a lab hired by Philips to test the foam.

“It was obvious that he was trying to pass the device by any method that would work,” the engineer wrote.

In its statement, Philips said the tests were conducted “in the most rigorous and objective manner possible.”

Documents related to the testing were turned over to the Justice Department earlier this year in what has become a sweeping investigation into the company’s testing practices and safety claims, according to sources familiar with the matter. Through a spokesperson, the Justice Department de-

clined to comment.

Philips has acknowledged that it is in discussions with federal prosecutors and that the company received a subpoena last year for information about the events leading up to the recall.

## ‘ALL ABOUT MONEY’

Now, more than two years after the recall announcement, patients say they are desperate for information about what went wrong.

In Louisiana, 56-year-old Army veteran Jules Lee said he still doesn’t know whether his nagging headaches and sinus congestion were caused by the Philips CPAP machine that he used for three years. He stopped using it about six months before the recall even though he suffers from sleep apnea and worries about dying in his sleep.

“I’m fearful and untrusting,” said Mr. Lee, who struggles with post-traumatic stress disorder after serving in the Gulf War in the early 1990s.

More details about the

health risks are expected to emerge through the ongoing federal lawsuits in Pittsburgh. Last month, the company reached a settlement in one case, agreeing to pay at least \$479 million to reimburse customers and others for the costs of the defective machines.

Other legal challenges are still ongoing, including a number of personal injury claims and a class-action suit seeking ongoing medical monitoring and research on the dangers posed by the devices. In court documents, the company argued that the lawsuits failed to prove the machines were responsible for injuries and illnesses.

In recent months, parent company Royal Philips has sought to distance itself from the crisis. During a shareholder’s meeting in May, new CEO Mr. Jakobs said the U.S. subsidiary had received complaints about the devices beginning in 2015. “They did some action and they closed it and carried on,” he said, without elaborating.

Mr. Jakobs himself, however, was in charge of overhauling the division that makes sleep apnea machines and ventilators as the internal crisis unfolded and as Philips was pitching devices that contained the foam during the pandemic. Through the company, Mr. Jakobs did not respond to interview requests.

Two former company managers said it’s likely officials in Amsterdam were aware of the crisis, given the scale of the problem and the importance of the devices to the company’s bottom line.

“I truly believe those folks knew about it all along,” said the former regulatory supervisor at Philips. “They tried to keep it pinned down as much as possible.”

Mr. McGinnis, the founder of Respironics, said Philips breached a fundamental tenet in the medical device industry by not acknowledging the problem early on.

“We had a lot of products we had to shut down,” he said. “You worry about it, think about it, look into it. You have to take on the responsibility. You can’t blame it on somebody else.”

In New York, Mr. Edwards, the longtime music teacher, is still recovering from his second throat surgery. He spends most of his time in an apartment he shares with his wife and dogs. Drumsticks from his years as a heavy metal rocker sit untouched in a display case on the wall.

Now using a refurbished CPAP machine, Mr. Edwards said Philips should be held accountable for failing to warn its customers about the dangerous defect long ago.

“It’s all about money to them — that’s the bottom line,” he said. “One day they’ll have to answer for what they’ve done.”

Reporting was contributed by Mike Wereschagin of the Pittsburgh Post-Gazette, as well as Molly Burke, Margaret Fleming, Susanti Sarkar, Nicole Tan, Claire Gardner, Bridgette Adu-Wadier, Aidan Johnstone, Kelly Adkins, Haajrah Gilani, Juliann Ventura and Grant Schwab of Northwestern University’s Medill Investigative Lab.

